A 56-year-old man presented with hematemesis and multiple episodes of melena. He had a history of chronic lymphocytic leukemia and traumatic rupture of the spleen leading to splenectomy and splenic artery embolization 6 years earlier. Esophagogastroduodenoscopy (EGD) revealed a large submucosal mass (7 × 5 cm) with an ulcerated overlying area associated with clot in the duodenal bulb (Fig. 1). The ulcer was treated with epinephrine (1:10 000). A computed tomography (CT) scan of the abdomen revealed a 2.5 × 1.8-cm pseudoaneurysm from an aberrant hepatic artery off the superior mesenteric artery (Fig. 2) along with surrounding hematoma, causing mass effect on the duodenum; this was further confirmed with a CT angiogram (Fig. 3a).

Coil embolization was performed with complete obliteration of the hepatic artery pseudoaneurysm (Fig. 3b). The patient was subsequently discharged home after 4 days of observation. The patient presented 2 months later with recurrent episodes of melena. A CT angiogram showed no active extravasations. EGD revealed a long segment of coil protruding from the pylorus into the stomach, along with coffee ground materials. There was a large mound-like focal bulge at the superior aspect of the duodenal bulb, with a 6-mm defect without active bleeding, along with the protruding coil (Fig. 4). The patient underwent a distal gastrectomy, Billroth II gastrojejunostomy, and ligation of gastroduodenal artery. He was discharged after 5 days of observation and remained well without further episodes of bleeding after 6 months of follow-up.

Hepatic artery pseudoaneurysm is a rare cause of upper gastrointestinal bleeding, and can be life-threatening [1, 2]. Angiographic embolization is an effective method of treatment with a reported success rate of 80–100% [3]. However, complications from embolization are not unusual, as noted in our case with extrusion of coils through the duodenal wall with potential for re-bleeding. Surgery may be needed in unusual circumstances for more definitive therapy.

**Fig. 1** Large submucosal mass with ulcer in the duodenal bulb.

**Fig. 2** An oral and intravenous contrast-enhanced computed tomography (CT) scan demonstrates a pseudoaneurysm (red arrow) with a surrounding hematoma (green arrows) just above the duodenal bulb and medial to the left lobe of the liver.

**Fig. 3 a** An angiogram performed immediately after the computed tomography (CT) scan confirms the pseudoaneurysm (red arrow) arising from a replaced hepatic artery (white arrow) off the superior mesenteric artery.

**Fig. 3 b** Post-embolization arteriogram of the common hepatic artery, demonstrating occlusion of the two large pseudoaneurysms.

**Fig. 4** Long segment of coil protruding from the pylorus into the stomach.

**Competing interests:** None
Y. J. Kim¹, S. K. Satapathy², L. Law⁴, A. Volfson², B. Friedman¹, S. Yang², C. Sung³, D. S. Siegel³, B. DeVito⁴
¹ Department of Internal Medicine, Hofstra North Shore-LIJ Health system at Long Island Jewish Medical Center, New York, USA
² Division of Gastroenterology, Hofstra North Shore-LIJ Health system at Long Island Jewish Medical Center, New York, USA
³ Department of Radiology, Hofstra North Shore-LIJ Health system at Long Island Jewish Medical Center, New York, USA
⁴ Division of Gastroenterology, Hofstra North Shore-LIJ Health system at North Shore University Hospital, New York, USA

References
1 Poon R, Tuen H, Yeung C et al. GI haemorrhage from fistula between right hepatic artery pseudoaneurysm and the duodenum secondary to acute cholecystitis. Gastrointest Endosc 2000; 51: 491 – 493

Corresponding author
S. K. Satapathy, MD
Division of Gastroenterology
Hofstra North Shore-LIJ Health system at Long Island Jewish Medical Center
270-05 76th Avenue
New Hyde Park
New York 11040
USA
Fax: +1-718-343-0128
sanjaya.satapathy@yahoo.com

Endoscopy 2011; 43: E323 – E324
© Georg Thieme Verlag KG Stuttgart · New York · ISSN 0013-726X

Kim YJ et al. Hematemesis from ruptured aberrant right hepatic artery aneurysm eroding through the duodenal wall... Endoscopy 2011; 43: E323 – E324